Local Weather Network System (LWNS)

Air Traffic Control (ATC)
User Operations

LWNS/ATC

- Replaces legacy FCF/ATC functionality
  - Added capability.
    - Display external observation converted to local format.
    - User-defined product catalog.
      - *Ability to display other Alphanumeric (A/N) products.*
      - *Ability to display up to three graphic products or loops.*
    - Ability to display Automated Observing System (AOS) data graphically.
    - Receipt acknowledgement of warnings, watches, and advisories.
    - ATC-to-ATC communications

LWNS/ATC

- Runs on Standard Windows NT/2000.
- 9" or 15" Color Monitor.
- New Keypad.
- Finger-Mouse Added, (with new 100ft. extension cord).
- System now on Base LAN. (No longer uses dedicated two-wire circuits.)
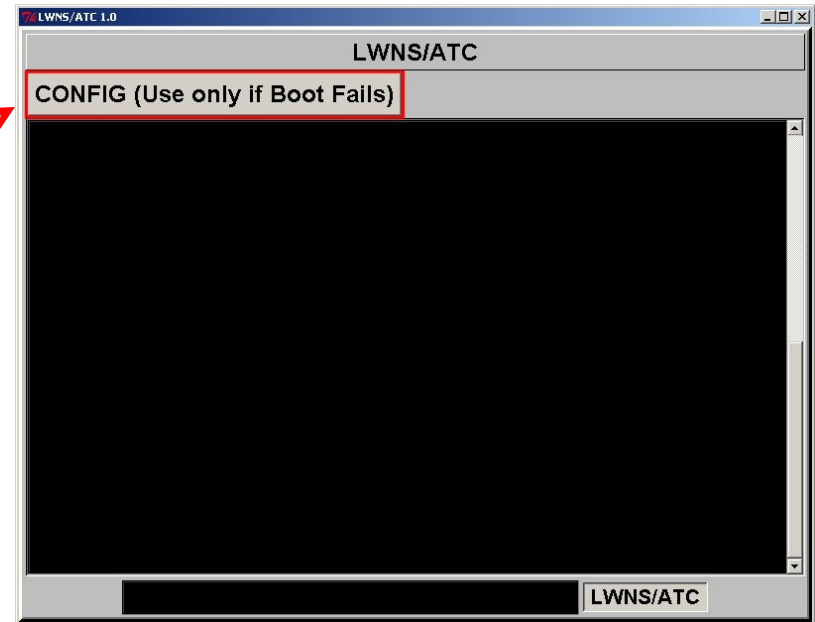
LWNS/ATC

- Automatically starts when client PC is booted.

- Once connected, and session accepted by N-TFS, LWNS/ATC window will appear.
  - No manual login required.
  - Only one assigned position may be active at a time.
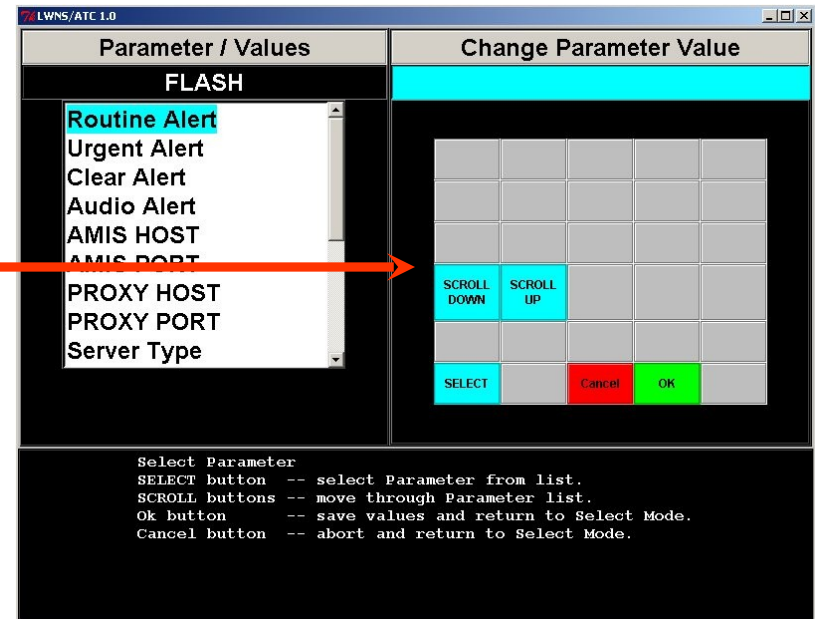
LWNS/ATC - Configuration

- LWNS/ATC window appears when Windows (or program) starts.
- Click **CONFIG** button to change configuration settings (if startup fails).
- Otherwise, press **CONFIG** button on ATC keypad.
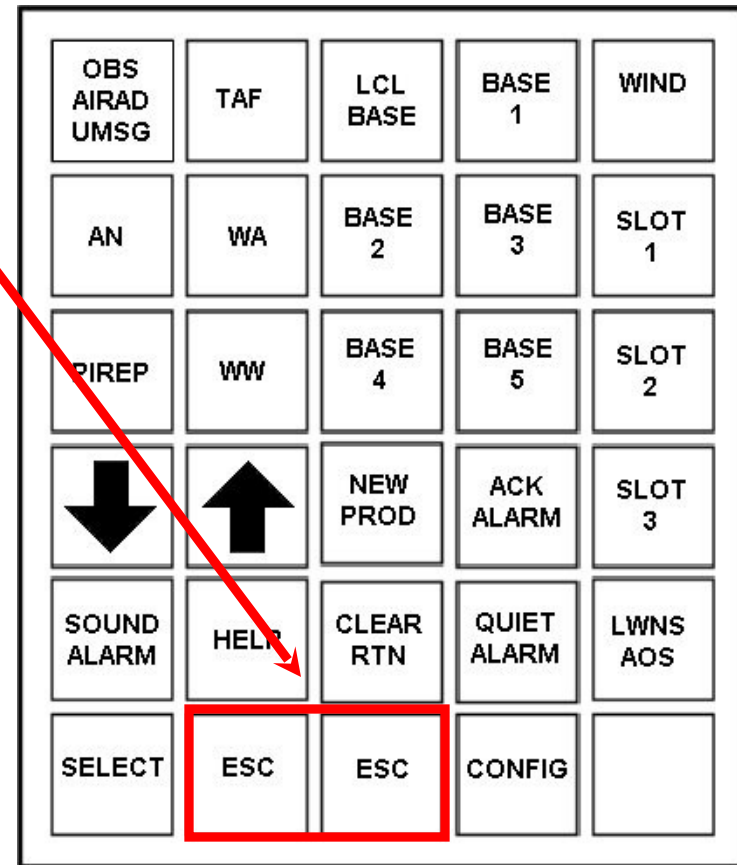
LWNS/ATC - Configuration

- Use ATC keypad or mouse pointing device to select an option on the on-screen simulated keypad.
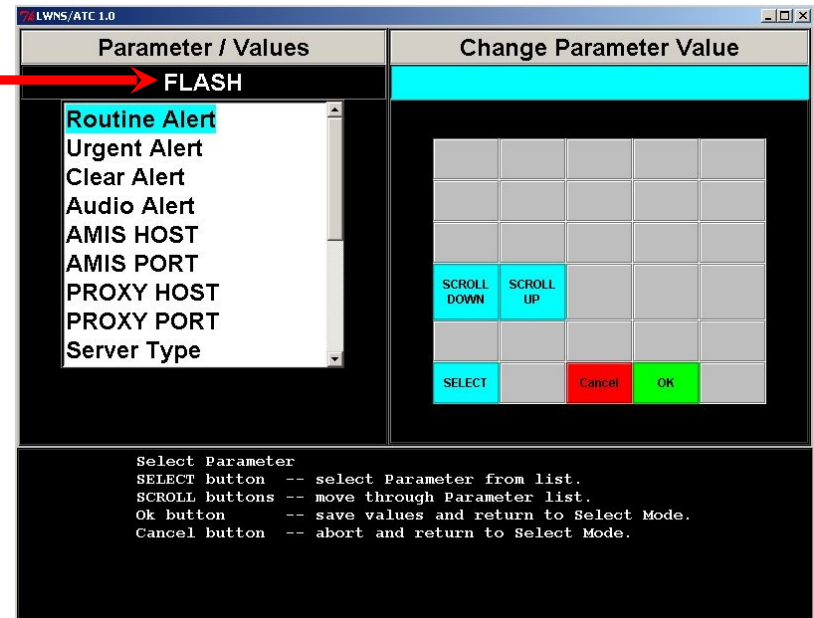
LWNS/ATC - Configuration

- New ATC keypad
  - Notice there are two **ESC** buttons.
  - Either one may not always be active.
  - Confirm location of active **ESC** button by looking at the ATC Monitor.

LWNS/ATC - Configuration
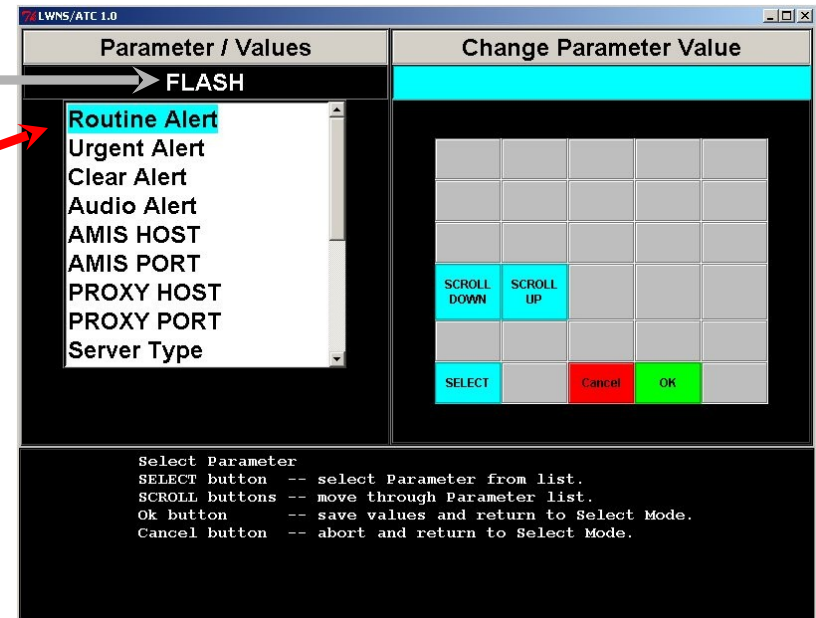
- Current settings are displayed here.
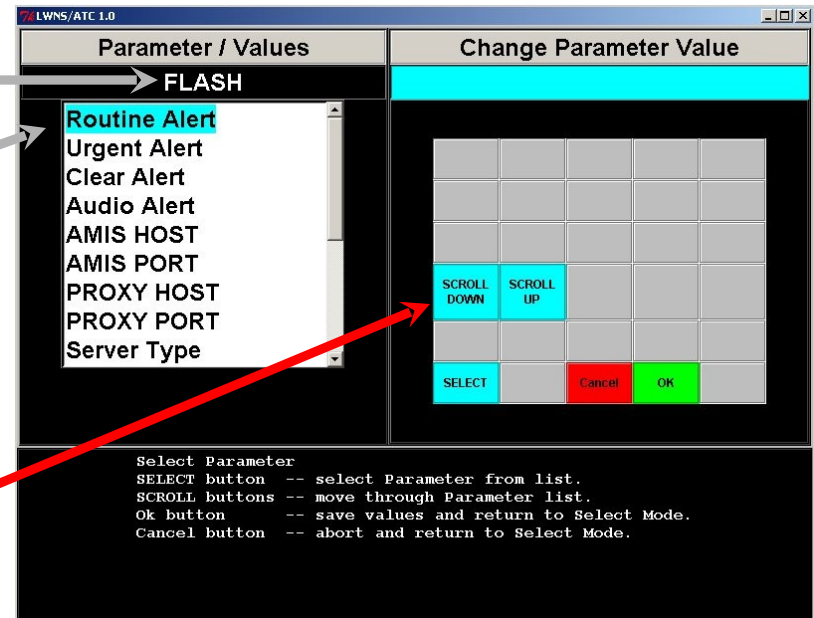
LWNS/ATC - Configuration

- Current settings are displayed here.

- To move to the **Parameter** that needs changing,
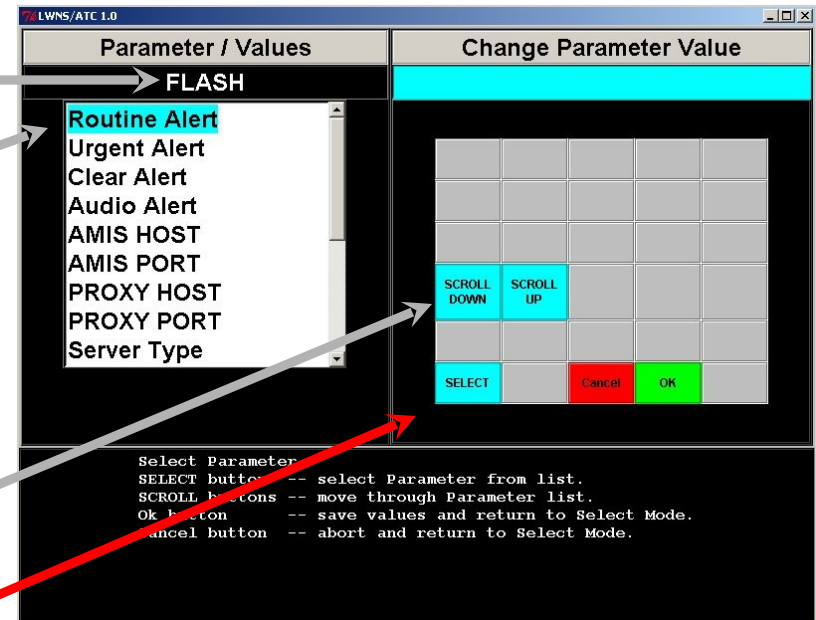
LWNS/ATC - Configuration

- Current settings are displayed here.
- To move to the **Parameter** that needs changing, use the **SCROLL DOWN** or **SCROLL UP** buttons.
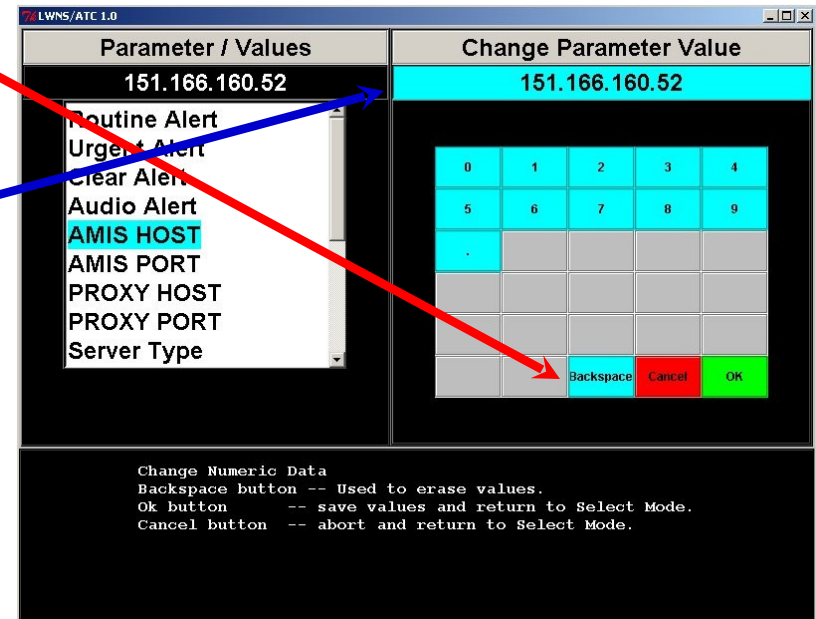
LWNS/ATC - Configuration

- Current settings are displayed here.

- To move to the **Parameter** that needs changing, use the **SCROLL DOWN** or **SCROLL UP** buttons.

- Select **SELECT**.

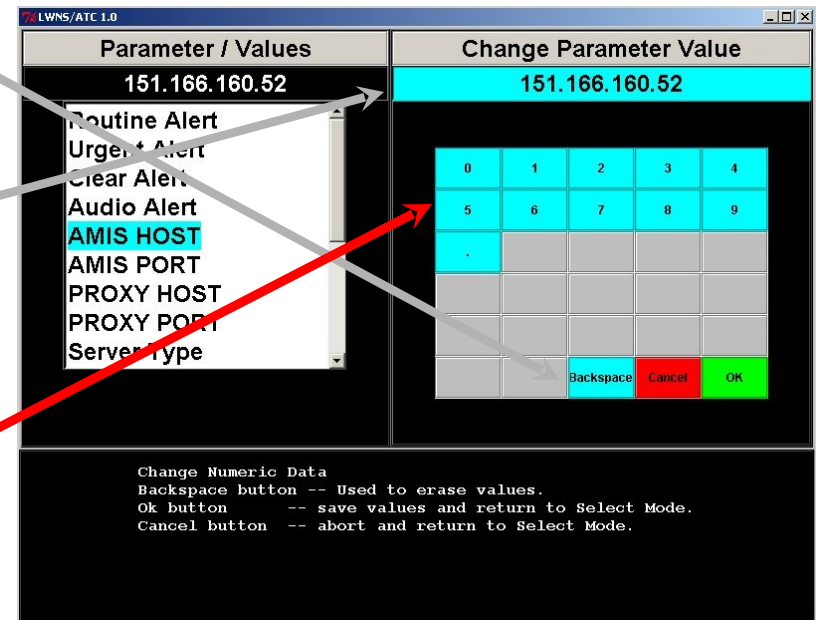

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LWNS/ATC - Configuration

- Use the **BACKSPACE** button to erase the current **Parameter Value** (from right to left).
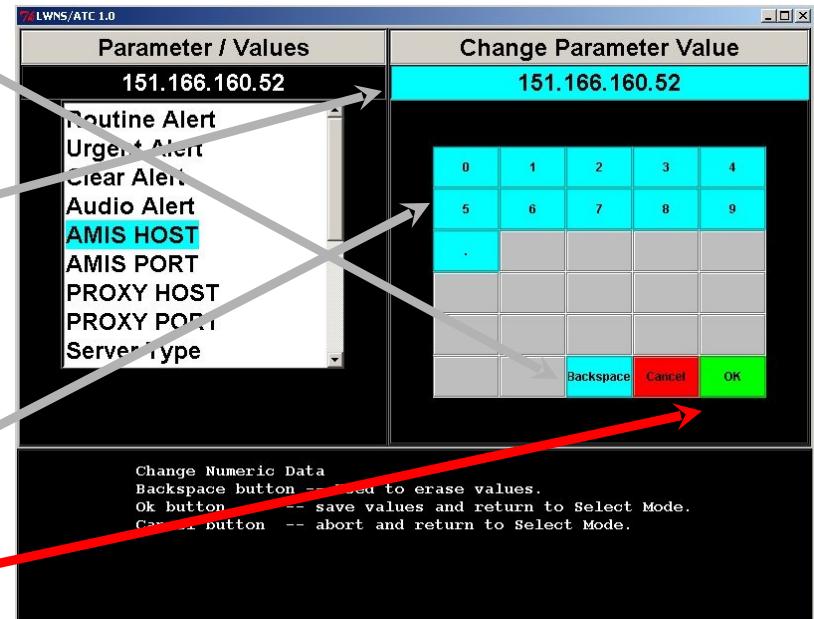
LWNS/ATC - Configuration

- Use the **BACKSPACE** button to erase the current **Parameter Value** (from right to left).

- Use the other buttons to enter desired value.
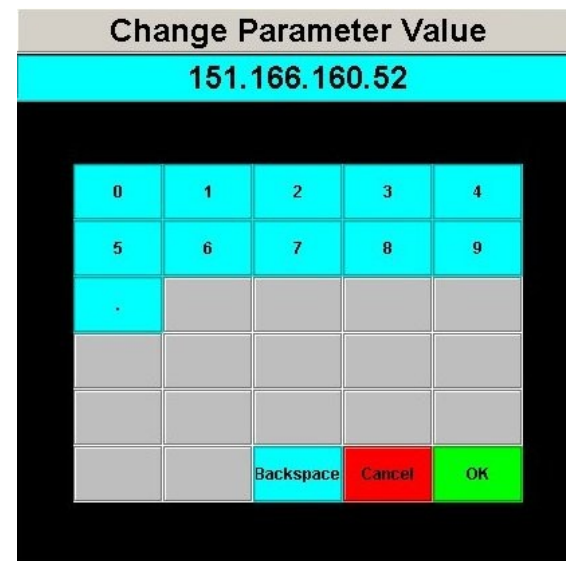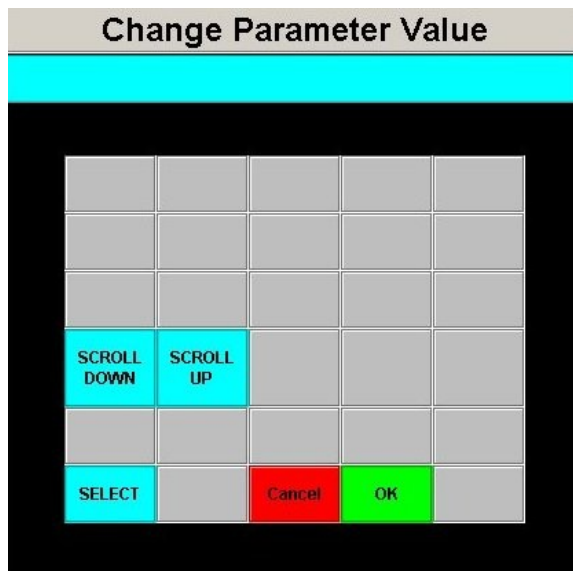
LWNS/ATC - Configuration

- Use the **BACKSPACE** button to erase the current **Parameter Value** (from right to left)

- Use the other buttons to enter desired value.

- Select **OK**.

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LWNS/ATC - Configuration

- Notice **Cancel** **OK** buttons do not always remain in same position.
- When using ATC keypad, confirm position of desired button(s).

LWNS/ATC - Operations

- Position ID.

- **ACK-U** flashes with audible alert when urgent alerts such as Weather Warnings, Watches, or Advisories are present.

- Select **ACK-U** to silence alert.
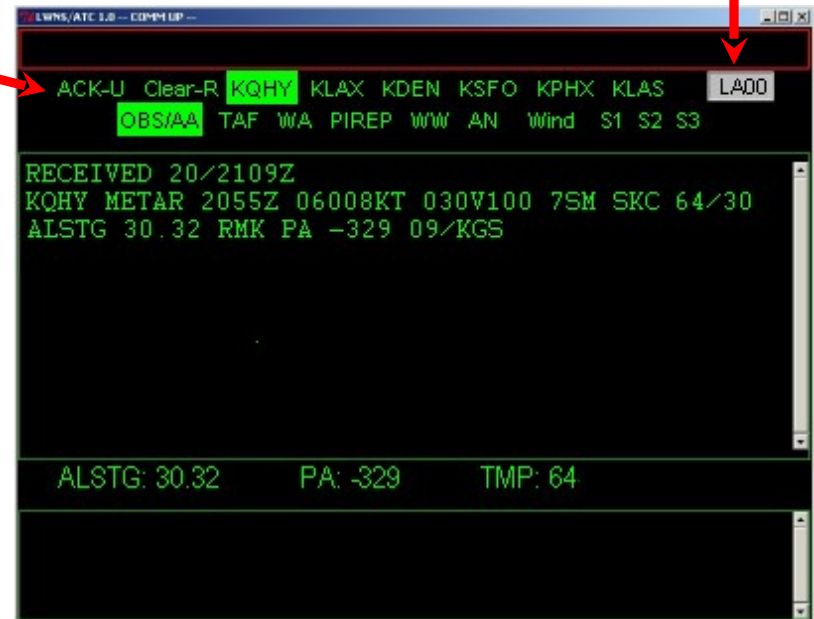
LWNS/ATC - Operations

- Primary ICAO and alternate ICAO's.

LWNS/ATC - Operations
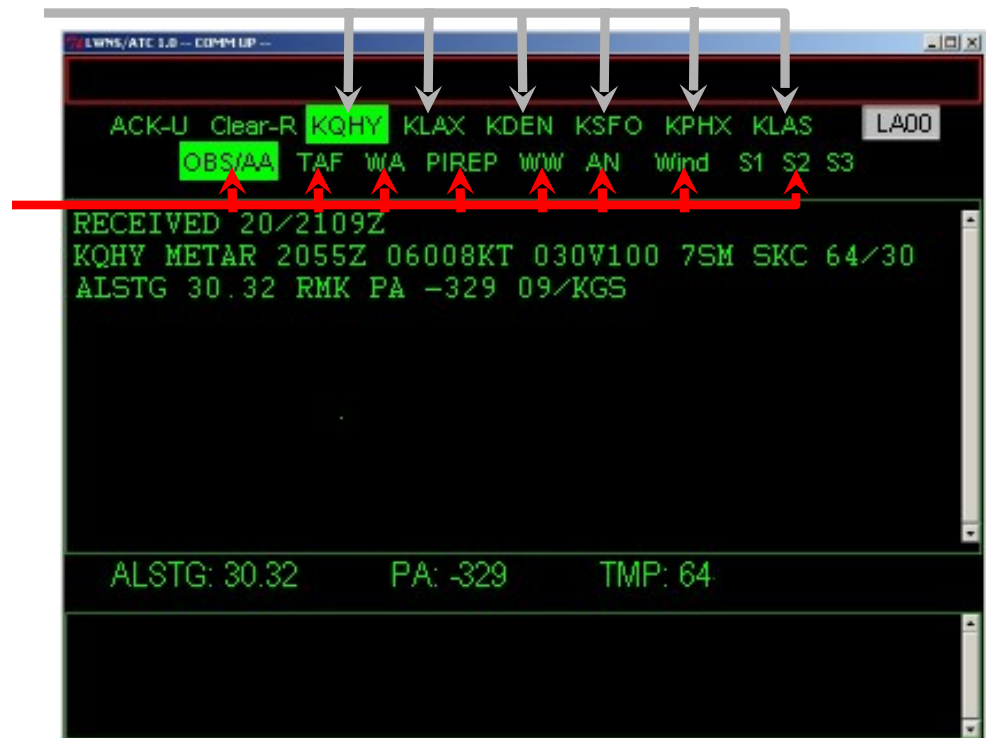
- Primary ICAO and alternate ICAO's.

- Available weather datasets.

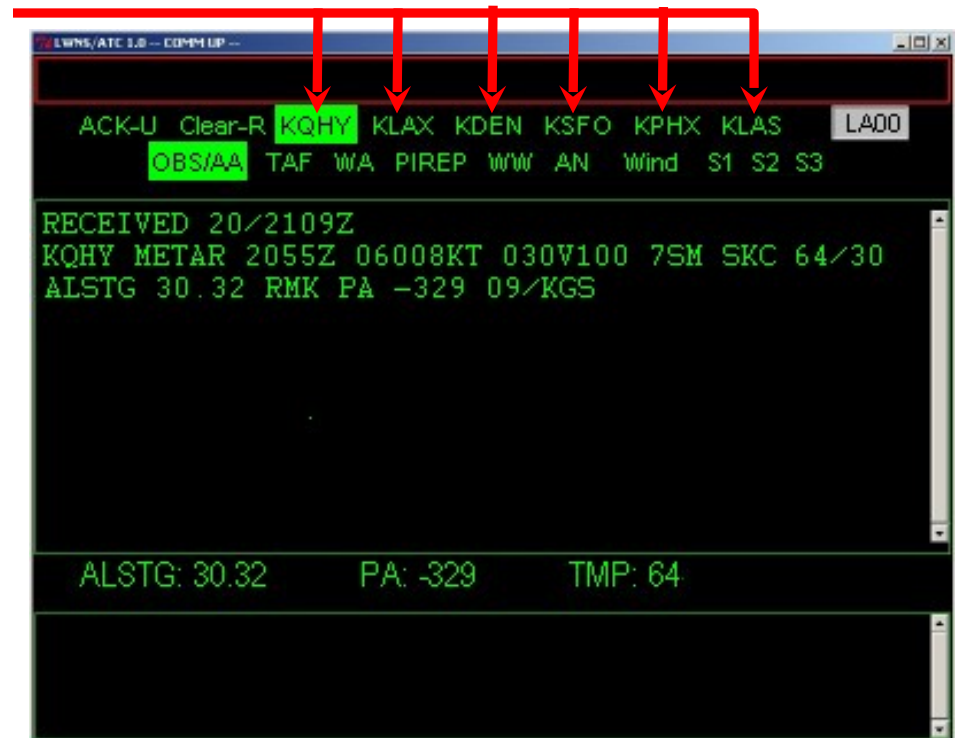# LWNS/ATC - Operations

- Primary ICAO and alternate ICAO's.
- Available weather datasets.
- Desired Information
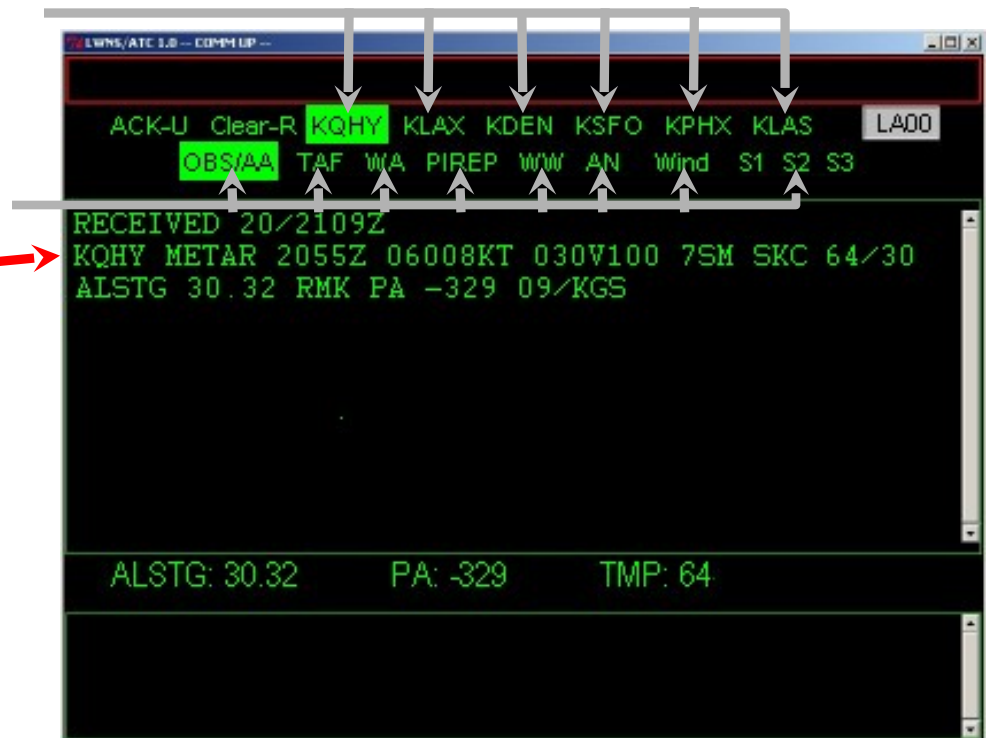
LWNS/ATC - Operations

- Primary ICAO and alternate ICAO's.
- Available weather datasets.
- Desired Information
- ATC Observation Data

LWNS/ATC - Operations

- Primary ICAO and alternate ICAO's.
- Available weather datasets.
- Desired Information
- ATC Observation Data
- ATC to ATC Communications…From Keyboard (F10) …Type Message…(F9 = Accept)
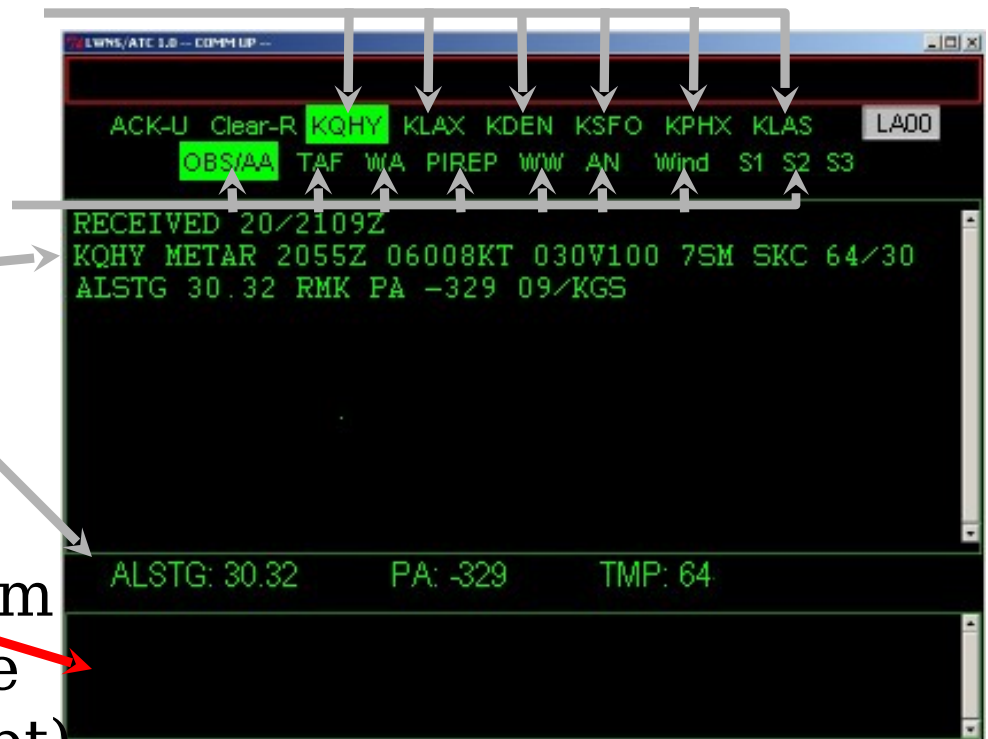
LWNS/ATC - Operations

- **OBS/AA:** Displays latest observation, AIRADs, and/or unformatted message.
- **TAF:** Displays latest TAF.
- **WA:** Displays weather advisories.
- **PIREP:** Displays PIREPs, latest one first.

LWNS/ATC - Operations

- **WW:** Displays weather warnings and watches.

- **A/N:** Displays all the most current subscribed alphanumeric products.
  - Selected ICAO is irrelevant.
  - Refreshed every 60 seconds.

LWNS/ATC - Operations

- The LWNS/ATC client displays "Merged" Obs.

- Merged Obs: Most current observation is overlaid over the previous observation.

- Information that changed since previous observation is highlighted.
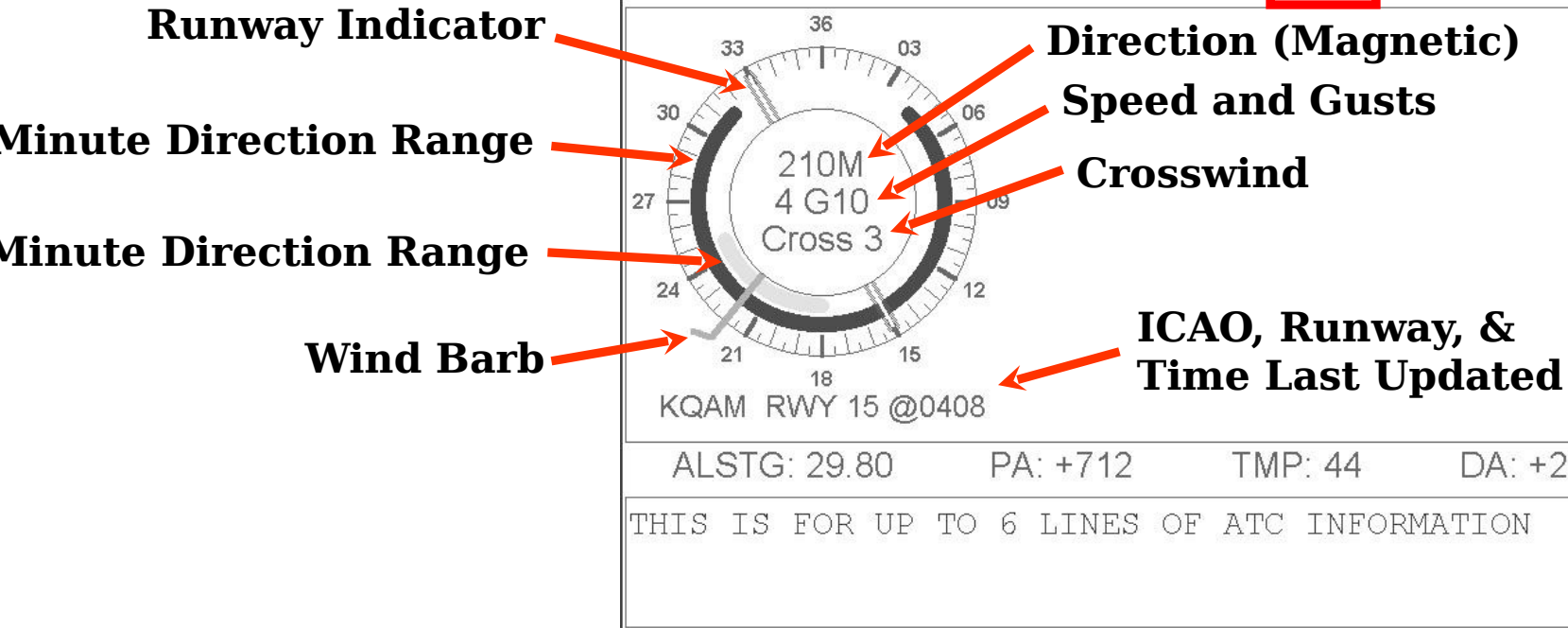
LWNS/ATC - Operations

- Viewing AOS wind data.
  - Select **Wind** to display current data.
    - Selected ICAO is irrelevant (displays only locally- derived winds).
    - Displays current direction, speed, gust, crosswind, and 2- & 10-Minute direction range.
    - Refreshed every 60 seconds.
    - Only available with AOS equipped airfields. (Contact BWS to verify.)

LWNS/ATC - Operations

Runway Indicator

Direction (Magnetic)

Speed and Gusts

Minute Direction Range

Crosswind

Minute Direction Range

Wind Barb

ICAO, Runway, & Time Last Updated

Screen text:
LWNS ATC - 07-05-01 Release 2.2 -- COMM UP --

ACK-U Clear-R KQAM KELP KLAX KBOS HESN KBWI LA00
OBS/AA TAF WA PIREP WW AN Wind S1 S2 S3

210M
4 G10
Cross 3

KQAM RWY 15 @0408

ALSTG: 29.80   PA: +712   TMP: 44   DA: +21
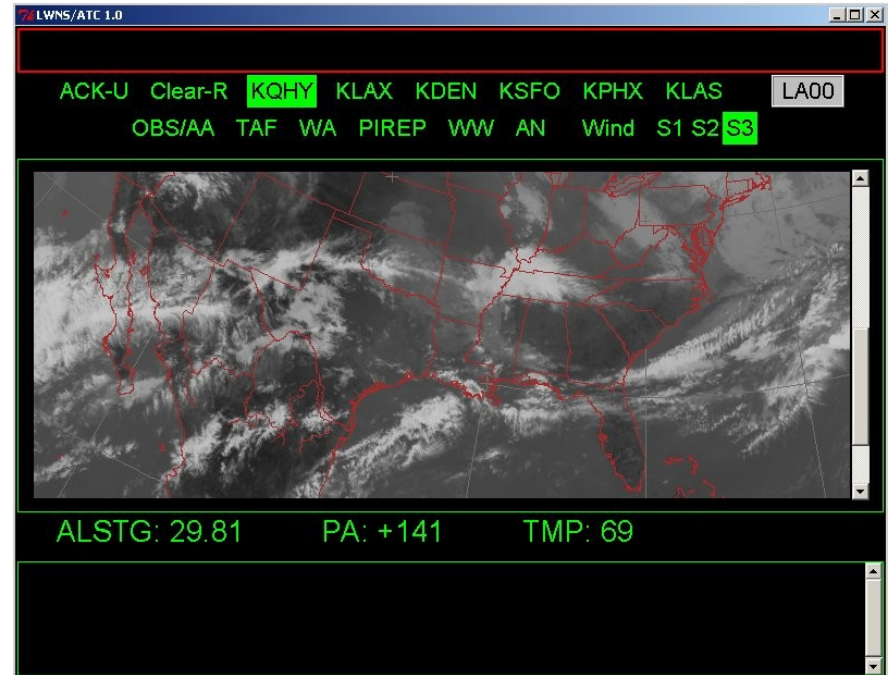
THIS IS FOR UP TO 6 LINES OF ATC INFORMATION

AOS Wind Data Display

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LWNS/ATC - Operations

- Viewing Graphic Products.
  - Select slots (**S1, S2,** or **S3)** to display most current subscribed graphic product.
  - Selected ICAO is irrelevant.
  - Can be individual image or loop.
  - Refreshed every 10 minutes
  - ATC can request specific graphic products or loops

LWNS/ATC - Operations

- Viewing Graphic Products.

  – When viewing graphics on the LWNS/ATC Client, the only information visible will be the ATC Observation Data.

  – Graphics cannot be downloaded if the ATC user dials-in remotely.

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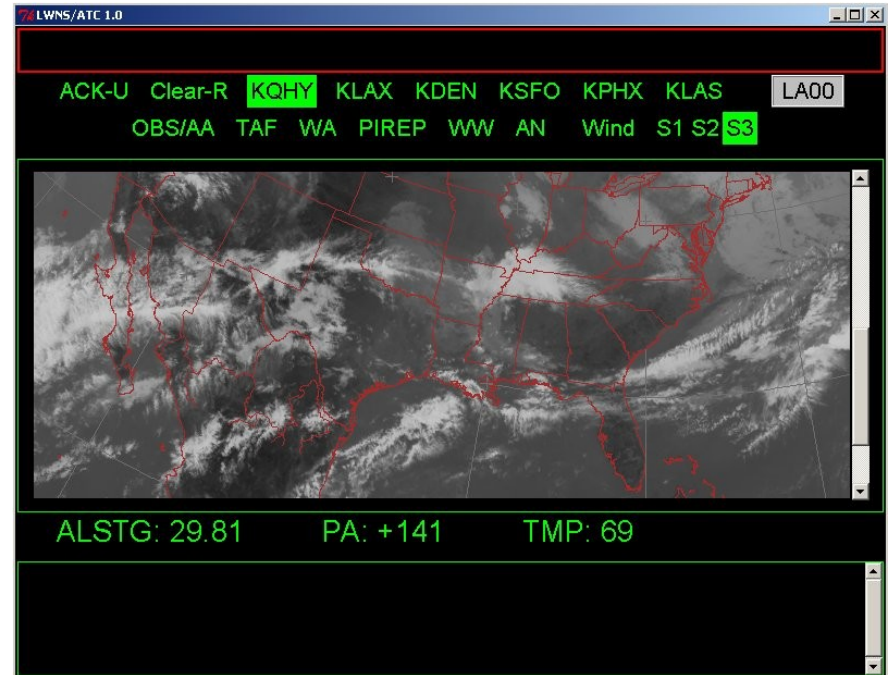
Contacts

- Base Weather Station (BWS).
- For Technical Assistance:
  - AFWA Help Desk
    - DSN 271-2586
    - COM (402) 294-2586
- For Training Information:
  - AFWA/DNTT
    - DSN 271-6722/9650
    - COM (402) 294-6722/9650